

# Anti-GSDMB antibody [EPR20841] - BSA and Azide free ab226483

Recombinant RabMAb

4 Images

### Overview

<b>Product name</b>	Anti-GSDMB antibody [EPR20841] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR20841] to GSDMB - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein within Human GSDMB. The exact sequence is proprietary. Database link: <a href="#">Q8TAX9</a>
<b>Positive control</b>	Flow Cyt (intra): A431 cells.
<b>General notes</b>	<p>ab226483 is the carrier-free version of <a href="#">ab215729</a>.</p> <p>This antibody was developed in collaboration with Dr Feng Shao's lab, NIBS.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR20841
<b>Isotype</b>	IgG

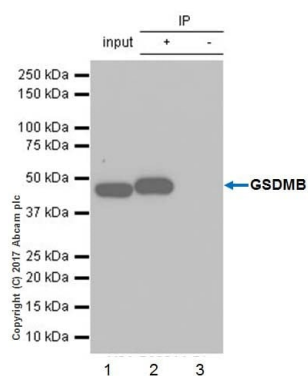
## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab226483 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
<b>IP</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	The N-terminal moiety promotes pyroptosis. May be acting by homooligomerizing within the membrane and forming pores (PubMed:27281216). The physiological relevance of this observation is unknown.
<b>Tissue specificity</b>	In the gastrointestinal tract, expressed in proliferating cells, including in the basal cell layer of esophagus and in isthmus/neck of stomach.
<b>Sequence similarities</b>	Belongs to the gasdermin family.
<b>Domain</b>	Intramolecular interactions between N- and C-terminal domains may be important for autoinhibition in the absence of activation signal. The intrinsic pyroptosis-inducing activity is carried by the N-terminal domain.
<b>Cellular localization</b>	Cytoplasm. Cytoplasm, cytosol. Cell membrane. Vesicular localization in the apical region of gastric chief cells and colonic surface mucous cells, and the basal region of neuroendocrine cells.
<b>Form</b>	There are 5 isoforms produced by alternative splicing.



Immunoprecipitation - Anti-GSDMB antibody  
[EPR20841] - BSA and Azide free (ab226483)

GSDMB was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with DDDDK tagged GSDMB expression vector, whole cell lysate with **ab215729** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab215729** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate 10 µg (Input).

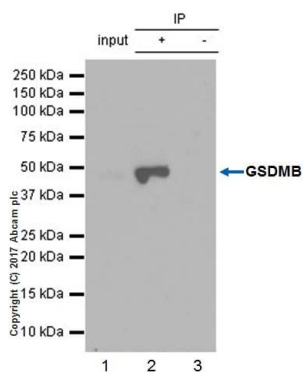
Lane 2: **ab215729** IP in HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab215729** in HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215729**).



Immunoprecipitation - Anti-GSDMB antibody  
[EPR20841] - BSA and Azide free (ab226483)

GSDMB was immunoprecipitated from 0.35 mg of A431 (human epidermoid carcinoma cell line) whole cell lysate with **ab215729** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab215729** at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: A431 whole cell lysate 10 µg (Input).

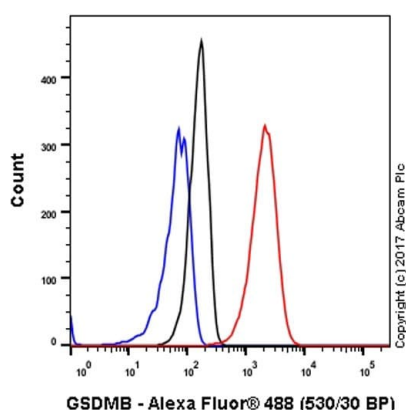
Lane 2: **ab215729** IP in A431 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab215729** in A431 whole cell lysate.

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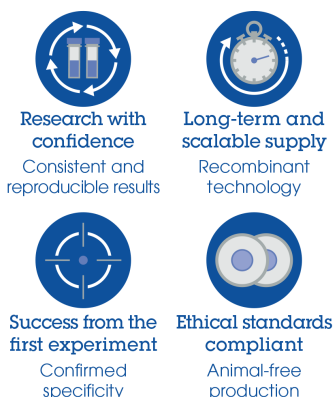


Flow Cytometry (Intracellular) - Anti-GSDMB antibody [EPR20841] - BSA and Azide free (ab226483)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized A431 (human epidermoid carcinoma cell line) cell line labeling GSDMB with **ab215729** at 1/600 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215729**).

#### Why choose a recombinant antibody?



Anti-GSDMB antibody [EPR20841] - BSA and Azide free (ab226483)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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